```
#using google colab
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

```
pl=pd.read_excel("Plot.xlsx")
pl
```

	X	Y
0	190	8.001296
1	191	9.903781
2	192	12.486976
3	193	14.808269
4	194	14.616501
...	...	...
2306	2496	64.907333
2307	2497	65.241524
2308	2498	65.523911
2309	2499	65.012863
2310	2500	64.636787

2311 rows × 2 columns

```
x = pl['X']
y = pl['Y']
plt.plot(x, y)
plt.xlabel("Xaxis")
plt.ylabel("yaxis")
plt.show()
```

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```
df=pd.read_csv("D1.csv")
```



```
df
```

	Unnamed: 0	100	101	102	103	104	105	106	
0	1	0.338689	0.338454	0.338232	0.338009	0.337790	0.337567	0.337336	0.3
1	2	0.308191	0.307937	0.307680	0.307370	0.307141	0.306851	0.306576	0.3
2	3	0.327993	0.327722	0.327448	0.327110	0.326864	0.326560	0.326274	0.3
3	4	0.364145	0.363900	0.363639	0.363301	0.363060	0.362742	0.362442	0.3
4	5	0.237328	0.237091	0.236838	0.236556	0.236346	0.236094	0.235851	0.2
...	...	...	...	...	...	...	...	...	
820	821	0.584903	0.584770	0.584582	0.584315	0.584215	0.583955	0.583744	0.5
821	822	0.481173	0.480568	0.479973	0.479386	0.478821	0.478248	0.477651	0.4
822	823	0.556911	0.556547	0.556198	0.555857	0.555544	0.555222	0.554871	0.5
823	824	0.514596	0.514150	0.513720	0.513299	0.512899	0.512499	0.512079	0.5
824	825	0.583532	0.583189	0.582855	0.582527	0.582220	0.581903	0.581565	0.5

825 rows × 704 columns

```
df1=df
df1=df1.drop(columns=['B','C'])
df1
```

	Unnamed: 0	100	101	102	103	104	105	106	
0	1	0.338689	0.338454	0.338232	0.338009	0.337790	0.337567	0.337336	0.3
1	2	0.308191	0.307937	0.307680	0.307370	0.307141	0.306851	0.306576	0.3

```
df2=df
df2=df2.drop(columns=['A','C'])
df2
```

	Unnamed: 0	100	101	102	103	104	105	106	
0	1	0.338689	0.338454	0.338232	0.338009	0.337790	0.337567	0.337336	0.3
1	2	0.308191	0.307937	0.307680	0.307370	0.307141	0.306851	0.306576	0.3
2	3	0.327993	0.327722	0.327448	0.327110	0.326864	0.326560	0.326274	0.3
3	4	0.364145	0.363900	0.363639	0.363301	0.363060	0.362742	0.362442	0.3
4	5	0.237328	0.237091	0.236838	0.236556	0.236346	0.236094	0.235851	0.2
...	...	...	...	...	...	...	...	...	
820	821	0.584903	0.584770	0.584582	0.584315	0.584215	0.583955	0.583744	0.5
821	822	0.481173	0.480568	0.479973	0.479386	0.478821	0.478248	0.477651	0.4
822	823	0.556911	0.556547	0.556198	0.555857	0.555544	0.555222	0.554871	0.5
823	824	0.514596	0.514150	0.513720	0.513299	0.512899	0.512499	0.512079	0.5
824	825	0.583532	0.583189	0.582855	0.582527	0.582220	0.581903	0.581565	0.5

825 rows × 702 columns

```
df3=df
df3=df3.drop(columns=['A','B'])
df3
```

	Unnamed: 0	100	101	102	103	104	105	106	
0	1	0.338689	0.338454	0.338232	0.338009	0.337790	0.337567	0.337336	0.3
1	2	0.308191	0.307937	0.307680	0.307370	0.307141	0.306851	0.306576	0.3
2	3	0.327993	0.327722	0.327448	0.327110	0.326864	0.326560	0.326274	0.3
3	4	0.364145	0.363900	0.363639	0.363301	0.363060	0.362742	0.362442	0.3

```
df1.dropna(subset = ["A"], inplace=True)
df1=df1.sort_values("A")
df1
```

	Unnamed: 0	100	101	102	103	104	105	106	
759	760	0.329941	0.329492	0.329017	0.328501	0.328068	0.327564	0.327099	0.3
226	227	0.283710	0.283224	0.282713	0.282178	0.281730	0.281239	0.280773	0.2
618	619	0.219230	0.218476	0.217712	0.216905	0.216148	0.215354	0.214576	0.2
0	1	0.338689	0.338454	0.338232	0.338009	0.337790	0.337567	0.337336	0.3
762	763	0.300777	0.300099	0.299398	0.298643	0.297963	0.297241	0.296567	0.2
...	...	...	...	...	...	...	...	...	
616	617	0.704280	0.703952	0.703623	0.703291	0.702988	0.702671	0.702321	0.7
824	825	0.583532	0.583189	0.582855	0.582527	0.582220	0.581903	0.581565	0.5
617	618	0.699217	0.698876	0.698551	0.698228	0.697928	0.697611	0.697261	0.6
401	402	0.458562	0.458203	0.457849	0.457409	0.457111	0.456731	0.456388	0.4
820	821	0.584903	0.584770	0.584582	0.584315	0.584215	0.583955	0.583744	0.5

645 rows × 702 columns

```
df2.dropna(subset = ["B"], inplace=True)
df2=df2.sort_values("B")
df2
```

	Unnamed: 0	100	101	102	103	104	105	106	
196	197	0.359959	0.359718	0.359480	0.359248	0.359030	0.358809	0.358574	0.3
338	339	0.298510	0.298155	0.297774	0.297362	0.297031	0.296647	0.296298	0.2
728	729	0.310848	0.310518	0.310159	0.309760	0.309435	0.309040	0.308677	0.3
731	732	0.258148	0.257524	0.256875	0.256188	0.255563	0.254891	0.254235	0.2
337	338	0.309944	0.309182	0.308407	0.307603	0.306888	0.306119	0.305394	0.3

```
df3.dropna(subset = ["C"], inplace=True)
df3=df3.sort_values("C")
df3
```

	Unnamed: 0	100	101	102	103	104	105	106	
196	197	0.359959	0.359718	0.359480	0.359248	0.359030	0.358809	0.358574	0.3
37	38	0.370148	0.369085	0.367984	0.366822	0.365758	0.364618	0.363513	0.3
38	39	0.267122	0.266875	0.266605	0.266305	0.266068	0.265786	0.265535	0.2
125	126	0.291656	0.290798	0.289901	0.288954	0.288072	0.287123	0.286203	0.2
665	666	0.312089	0.310711	0.309293	0.307827	0.306438	0.304984	0.303569	0.3
...	...	...	...	...	...	...	...	...	
615	616	0.591090	0.590874	0.590590	0.590206	0.589988	0.589612	0.589287	0.5
823	824	0.514596	0.514150	0.513720	0.513299	0.512899	0.512499	0.512079	0.5
616	617	0.704280	0.703952	0.703623	0.703291	0.702988	0.702671	0.702321	0.7
617	618	0.699217	0.698876	0.698551	0.698228	0.697928	0.697611	0.697261	0.6
824	825	0.583532	0.583189	0.582855	0.582527	0.582220	0.581903	0.581565	0.5

447 rows × 702 columns

```
plt.figure(figsize=(15,15))
plt.hist([df1['A'],df2['B'],df3['C']],edgecolor='black',histtype='bar')
# plt.hist(df2['B'],edgecolor='black',histtype='bar')
# plt.hist(df3['C'],edgecolor='black',histtype='bar')
plt.legend(['A','B','C'])
plt.xlabel("Value")
plt.ylabel("Frequency")
```

```
/usr/local/lib/python3.7/dist-packages/numpy/core/_asarray.py:83: VisibleDeprecationW
  return array(a, dtype, copy=False, order=order)
Text(0, 0.5, 'Frequency')
```
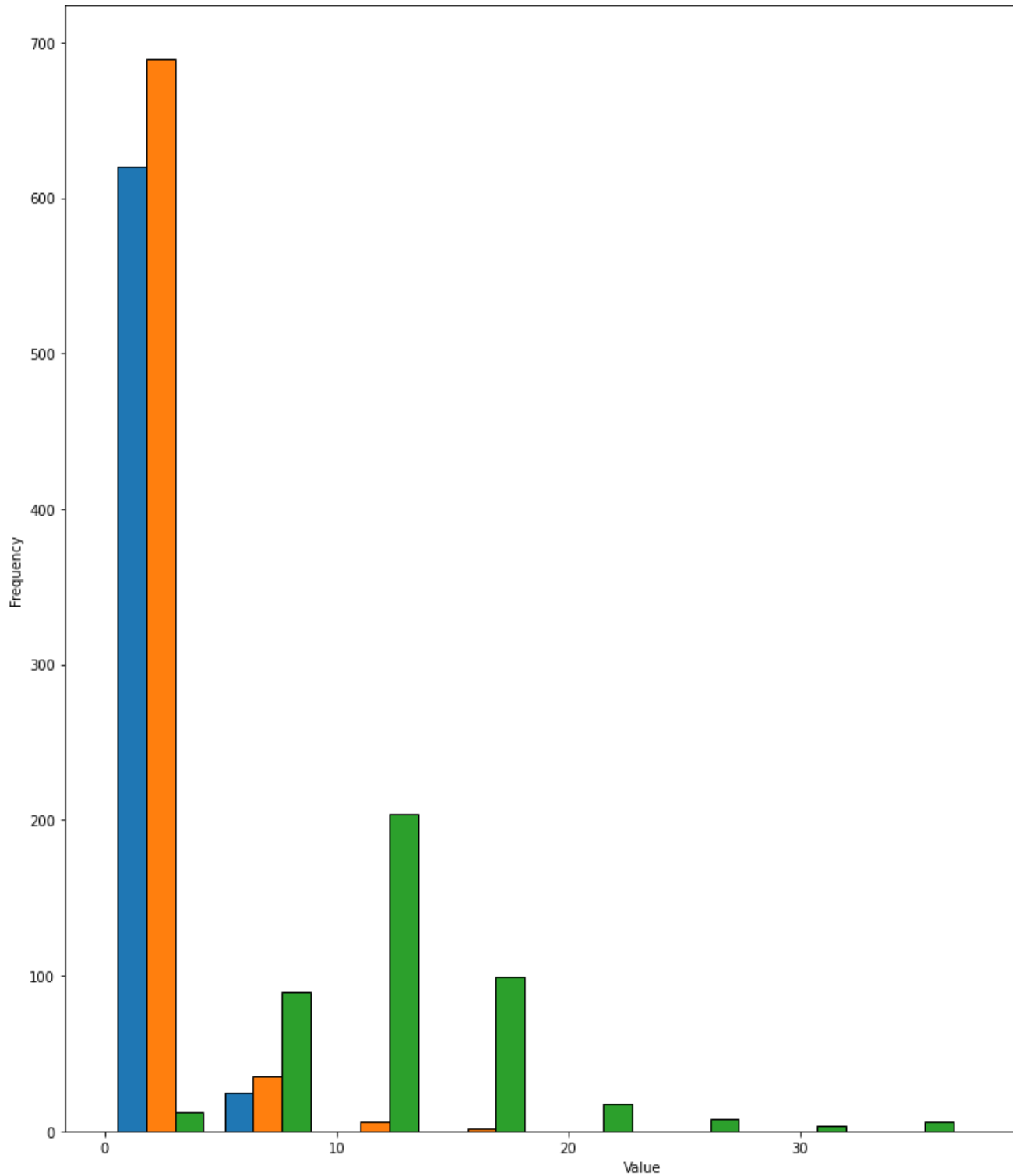


```
df1.to_csv("D1_1.csv")
df2.to_csv("D1_2.csv")
df3.to_csv("D1_3.csv")
```

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